

*Concluded
A2*

assembly 60 comprising an electric motor 62 with a drive shaft 63 and a cylindrical drive magnet 64 with one axial end mounted thereon. The second sub-assembly 61 comprises an impeller housing 65 with a liquid inlet and a liquid outlet 66, a cylindrical driven magnet 67, and an impeller 68 with one axial end fixed to the driven magnet 67. The base portion 46 is integrally molded with a holder 70 for lens 71, depending mounting legs 72 a seat for the impeller housing 65 and an outwardly protruding, cylindrical magnet housing portion 69 with a blind, outer end. In the assembly, the drive magnet 64 and the driven magnet 67 are mounted for rotation in coaxial, substantially concentric relation surrounding and within the cylindrical housing portion 69, respectively, so that the drive magnet and driven magnet are magnetically coupled together, whereby the impeller is rotated by the electric motor.

Replace the paragraph on Page 6, line 32 -Page 7, line 3 by the following amended paragraph:

A3

The impeller is mounted for rotation on a stationary spindle 75 mounted coaxially in the cylindrical housing portion housing 69 with upper and lower axial ends of the spindle captivated by the impeller housing and the blind end, respectively.

Replace the paragraph on Page 8, lines 13 -23 by the following amended paragraph:

A4

Following amplitude detector 34, is a differentiator circuit which has a time constant arranged such that rapidly changing signals are passed with little attenuation and slowly rising and falling signals are suppressed resulting in the differentiator's output remaining at or about zero. This signal is applied to the non-inverting input of comparator 37. The inverting input of comparator 37 is held at a fixed DC reference voltage. Because the DC reference voltage 35 is greater than the quiescent output of differentiator 36, comparator 37 usually remains off (logic low). If a significant (above the ambient) audio signal which is detected by 34 and passed by differentiator 36

Concluded
A4

exceeds the fixed DC threshold level, comparator 37 will change stat (to logic high) resulting in the activation of the pump power control 38, the pump and the light

Replace the paragraph on Page 8, line 24- Page 9, line 9 by the following amended paragraph:

A5

In alternative lamp/light control, a transient decay circuit is employed to provide gradual lamp fade in synchronism with the rate at which the globules of more dense liquid fall back through the less dense liquid after spouting up therein in geyser-like manner. The (incandescent) lamp 79 is driven by a conventional voltage controlled AC dimmer circuit. When comparator 37 goes to logic high, a capacitor 96 is charged through diode 95 and held charged for the duration the comparator remains in that state. When comparator 37 returns to logic low, capacitor 16 discharges through resistor 97 with a time constant arranged to be similar to the time taken for the liquid in the vessel to return to its quiescent state. The voltage on capacitor 96 controls the voltage-controlled AC dimmer circuit (not shown) so that in response to a significant audio signal, the denser liquid 4 is pumped up through the less dense liquid 5 simultaneously with the full illumination of lamp 79. When the audio signal ceases, comparator 37 returns to its logic low state resulting in the de-activation of the pump. The denser liquid is then falling back to the bottom of the container, taking a few moments as determined by the the viscosity of the liquids. During this brief period, capacitor 96 controlling the dimmer is discharging through resistor 97 causing light 79 to slowly dim back to darkness.

Remarks

Claims 1-20, as originally filed, remain in the application.

It is respectfully pointed out that, items 1-4 of the office action, should have required amendments to correct errors in the specification, not the drawings:

To obviate the objection in item 2, on Page 8, line 31, "17" has been changed to

-97--

To obviate item 3, on Page 8, line 18, "5" has been changed to -35--

To obviate item 4, on Page 5, line 18, "33-43" has been changed to -33-38, 42,44--
and on Page 7, line 1, "69" has been changed to - 59 -

The corrections to the specification required in item 5 have been effected .

Concerning the claim rejections, it is respectfully pointed out that the application claims priority from provisional application 60/267910 filed February 9, 2001, which is prior to the filing date of the primary reference Yang (6447138), which is February 23, 2001. Applicants hereby assert their priority claim, (if that is required) to obviate the rejections.

Accordingly, it is believed that the application is in order for allowance and favorable reconsideration is requested.

Respectfully submitted,

By: Robert W. J. Usher Date: June 10, 2003
Robert W.J. Usher
Reg. No. 30923
(212) 633-1076

I hereby certify that this paper together with any attachments is being transmitted by facsimile to Commissioner For Patents, PO Box 1450, Alexandria, VA 22313-1450, on June 10, 2003

Robert W. J. Usher
Robert W J Usher